ABSTRACT OF THE DISCLOSURE

The invention relates to a device for recording three-dimensional items of image information of an object, including sensing means for sensing light coming from the object and lens means having a number of cylindrical lenses that form lens elements via which light coming from the object can be projected onto the sensing means. At least one first lens element enables the generation of an image of the object or of portions of the object, which are to be recorded, at a first location on the sensing means. This image differs from an image of the object or of the portions of the object, which are to be recorded, that can be generated by at least one second lens element at a second location that is different from the first. The curvature of the cylindrical lenses is greater or less in the edge areas of the lens means than in a middle area of the lens means. Corresponding lens means can also be used for reproducing the three-dimensional items of image information.